Name of Work:- **Improvements to drains of roads next to Ayyappa temple of Jakkur Layout in ward no.07 and Improvements to drains of cross roads of Jakkur layout in ward no.07, Byatarayanapura**

Estimated Cost:- **70.00 Lakhs**

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.141.Item No.19.1)								
	RCC DRAIN								
	13th cross		2	75.00	0.75	0.90	101.25		
	14th cross		2	57.00	0.75	0.90	76.95		
	15th cross		2	209.00	0.75	0.90	282.15		
	16th cross		2	69.00	0.75	0.90	93.15		
	over burden earth		1	22.00	1.40	1.50	46.20		
					TOTAL		**599.70**	137.80	82639.00
	Basic Rate:	cum	**130.00**						
	Area Weightage @ 6%		7.80						
	Total		**137.80**						
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	RCC DRAIN-BOTTOM								
	13th cross		2	75.00	0.75	0.15	16.88		
	14th cross		2	57.00	0.75	0.15	12.83		
	15th cross		2	209.00	0.75	0.15	47.03		
	16th cross		2	69.00	0.75	0.15	15.53		
	For ramps- (Length for shoulder drains deducted)								
			2	65.00	0.20	0.10	2.60		
			2	47.00	0.20	0.10	1.88		
			2	199.00	0.20	0.10	7.96		
			2	59.00	0.20	0.13	3.14		
					TOTAL		**107.83**	5408.12	583152.00
	Basic Rate:	cum	5102.00						
	Area Weightage @ 6%		306.12						
	Total		**5408.12**						

3	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 13, Item NO. 4.11)								
	Bottom								
	13th cross		2	75	0.75	0.15	16.88		
	14th cross		2	57	0.75	0.15	12.83		
	15th cross		2	209	0.75	0.15	47.03		
	16th cross		2	69	0.75	0.15	15.53		
	Side Wall								
	13th cross	**2x2**	4	75.00	0.15	0.60	27.00		
	14th cross	**2x2**	4	57.00	0.15	0.60	20.52		
	15th cross	**2x2**	4	209.00	0.15	0.60	75.24		
	14th cross	**2x2**	4	69.00	0.15	0.60	24.84		
							239.85	5998.54	1438750.00
	Basic Rate:	cum	5659.00						
	Area Weightage @ 6%		339.54						
	Total		**5998.54**						
4	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.17, Item No.17)								
	Reinforcement for side wall						239.85		
			At 60 Kg % per cum				**14.39**	75223.96	1082549.00
	Basic Rate:	Tonne	70966.00						
	Area Weightage @ 6%		4257.96						
	Total		**75223.96**						
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	SIDE WALL								
	13th cross	2x4	8	75.00		0.60	360.00		

	14th cross	2x4	8	57.00		0.60	273.60		
	15th cross	2x4	8	209.00		0.60	1003.20		
	16th cross	2x4	8	69.00		0.60	331.20		
							1968.00	387.96	763506.00
	Basic Rate:	Sqm	366.00						
	Area Weightage @ 6%		21.96						
	Total		**387.96**						
6	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	For ramps- (Length for shoulder drains deducted)		2	65.00	0.20	0.10	2.60		
			2	47.00	0.20	0.10	1.88		
			2	199.00	0.20	0.10	7.96		
			2	49.00	0.20	0.10	1.96		
							14.40	5767.46	83052.00
	Basic Rate:	cum	5441.00						
	Area Weightage @ 6%		326.46						
	Total		**5767.46**						
7	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per [illegible]								
	DATA RATE	**Sqm**							
	Covering Slab								
			2	125	0.60	0.75	187.50		
			2	95	0.60	0.75	142.50		
			2	348	0.60	0.75	522.50		
			2	115	0.60	0.75	172.50		
							1025.00	2100.00	2152500.00
8	Providing and fixing MS Grating 260x260 mm(Page No.VIII, Sl No.237, code No.0771)								
	For shoulder drain covering		60				60.00		
							60.00	89.00	5340.00
	Basic Rate:	Nos	89.00						
9	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								

	Basic Rate	cum	**57.00**				599.70	94.34	56576.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10K		**32.00**						
	Total		**89.00**						
	Add Area Weightage6%		**5.34**						
			94.34						
								Sub Total	6248064.00
								Add 12% GST Charges	749767.68
								Miscelleneous charges	2168.32
								Grand Total	7000000.00

1 This is certified that the work spot comes under BBMP limits only.

2 The work spot is inspected by me

3 The items Provided in the Estimate are quite Essential

4 The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer

Executive Engineer

Administrative Approval
Accorded For Rs-70.00Lakhs
Head of A/C P-3250
CER NO :59 Dt:08/03/19
E.E. (Project)

Technical Sanction
Accorded For Rs-70.00 Lakhs
Head of A/C P-3250
CER NO :186 Dt:7/1/19
CE (YNK)